

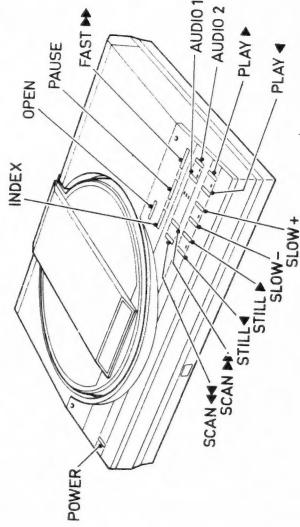
Service Service Service

<b>player</b>		<b>Optical reading system</b>	: See deck
Mains voltage	: 220 V $\pm$ 10%	Appearance of stable picture	: $\leq 12$ sec. (disc depending)
Mains frequency	: 50 Hz	Time after start	: $< 10$ sec. (except during search)
Power consumption	: 45 W (max)	Time base instability	: $< 10$ min. per side
Fuse	: 2.5 A delayed	Disc systems	: C.A.V. (constant angular velocity) C.L.V. (constant linear velocity)
Mains cord	: 2.5 m		: C.A.V. 36 min. per side C.L.V. 54 min. per side
Coaxial cable	: 3.5 m	Playing time (max.)	: $\leq 10$ sec.
Dimensions	: 535x412x130 mm	Lid open after shut off	: $\leq 10$ sec.
Weight	: 10 kg	<b>FEATURES:</b> (see also directions for use)	
Operation position	: Horizontal max. 20° inclined	Mains switch for stand-by	-
Allowed ambient temperature	: $15^{\circ}\text{C} < t < 35^{\circ}\text{C}$ acc spec	LED-indication for modes of operation	-
	: $5^{\circ}\text{C} < t < 15^{\circ}\text{C}$ working	Built-in aerial switch controlled by power supply	-
	: $35^{\circ}\text{C} < t < 15^{\circ}\text{C}$	Automatic start after lid closure	-
		Automatic return to start position after lid opening	- or end of program.
		Repeat program switch (built-in)	
		<b>CONTROLS:</b>	
		B&L female connector	power on/off
		B&L male connector	open
		2.5 mV rms across 75 $\Omega$	
<b>Audio/Video connector</b>			
<b>HF input (coax switch)</b>			
<b>HF output (coax switch)</b>			

# Service Manual

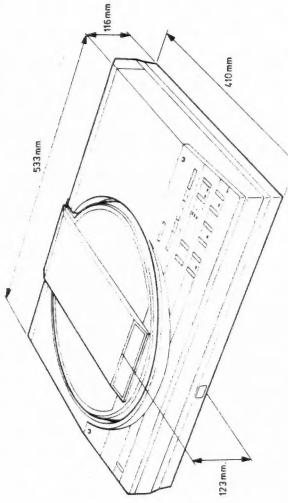
## PART I

<b>PART I</b>	<b>Service Manual</b>
<b>PART I</b>	<b>Contents</b>
	: Technical data
	Dimensions
	Location of parts
	Block diagram
	Wiring diagram
	<b>Circuit diagrams and printed boards:</b>
	A Supply panel
	B Video Servo 1 panel
	C Video Servo 2 panel
	D Control panel
	<b>Remark</b>
	List of mechanical parts
	Exploded view
	List of electrical parts
	Abbreviations in the diagrams
	Survey of symbols
	Connections of semiconductors
	Remote control transmitter
	: For the deck see Service Manual of 22VF420 Service codenumber 482272613275



Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Ausgewählte Dokumente aus dem Deutschen Reich, 1871-1918

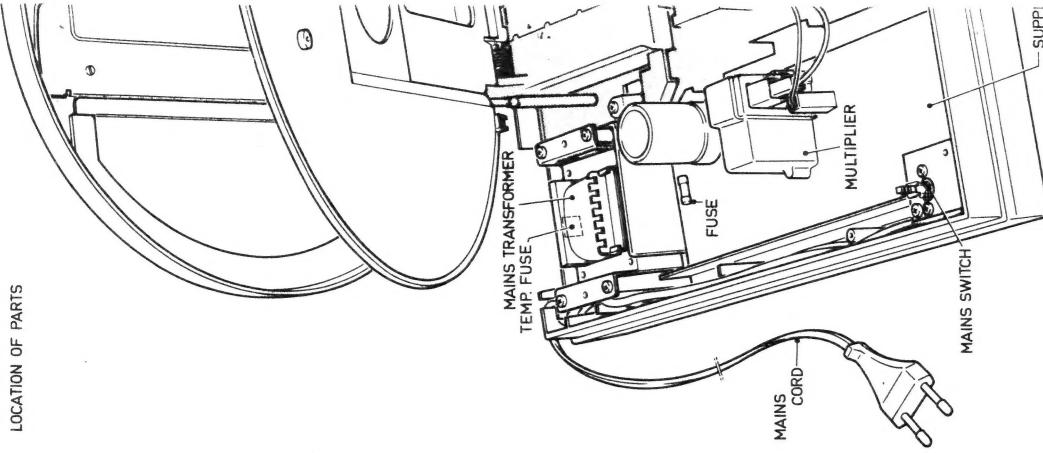


- \*) Not possible with C.L.V.; no reaction of mode switches
- \*\*) No colour with scan



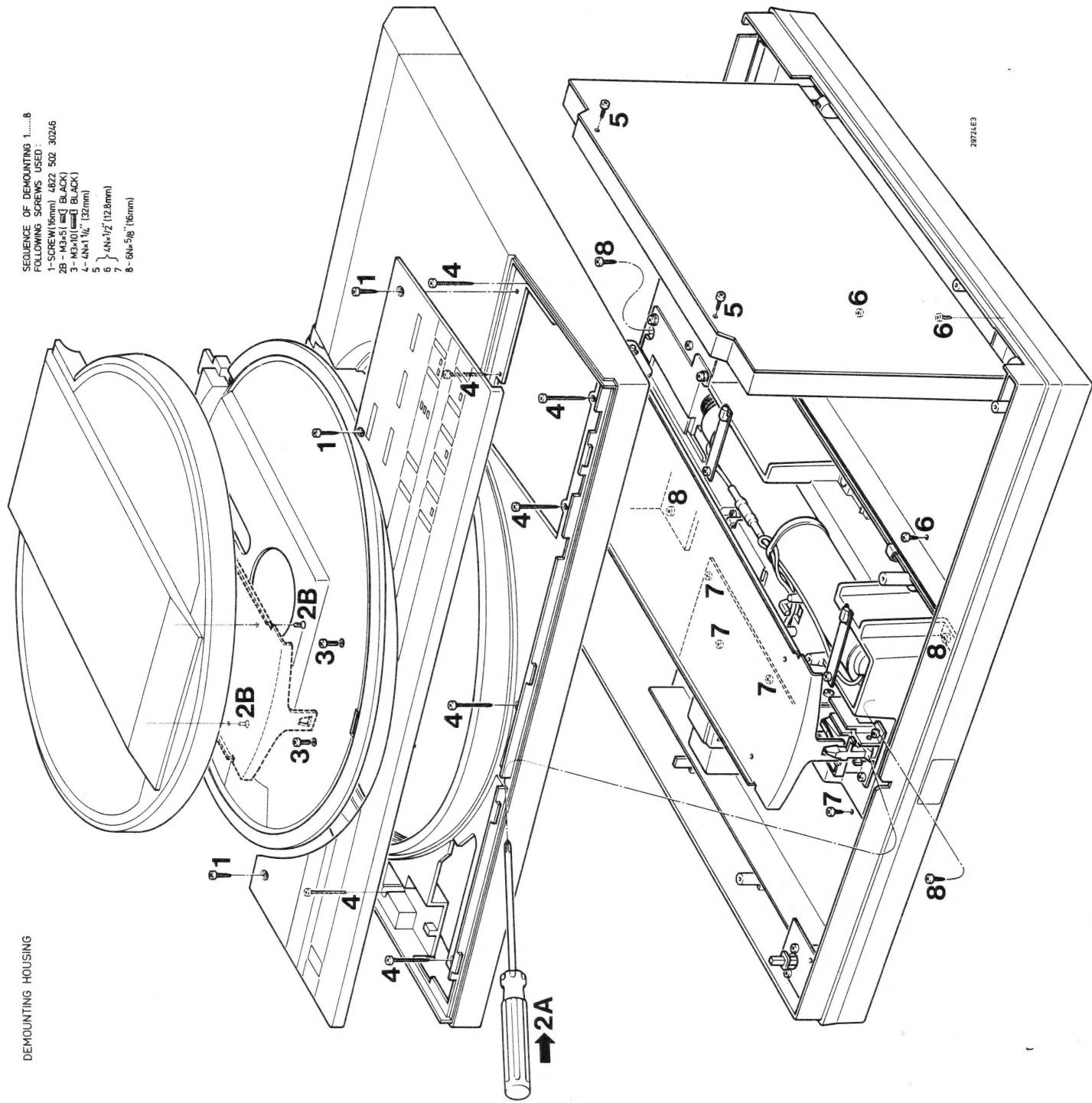
Player	Mains voltage
	Mains frequency
	Power consumption
	Fuse
	Mains cord
	Coaxial cable
	Dimensions
	Weight
	Operation position
	Allowed ambient tem
	T.V. system
	Intercarrier distance
	UHF channel
Audio/Video connect	
	IHF input (coax switch)
	IHF output (coax switch)
Video output	
	Frequency range
	Signal to noise ratio
	Amplitude ratio pictu
	carrier during sync. le
	Colour subcarrier fre
Audio outputs (2)	
	(only during play forw
	Frequency range
	Signal-noise ratio
	Channel crosstalk
	Distortion
	Muting during other
	functions than play fo
	Subcarriers

LOCATION OF PARTS



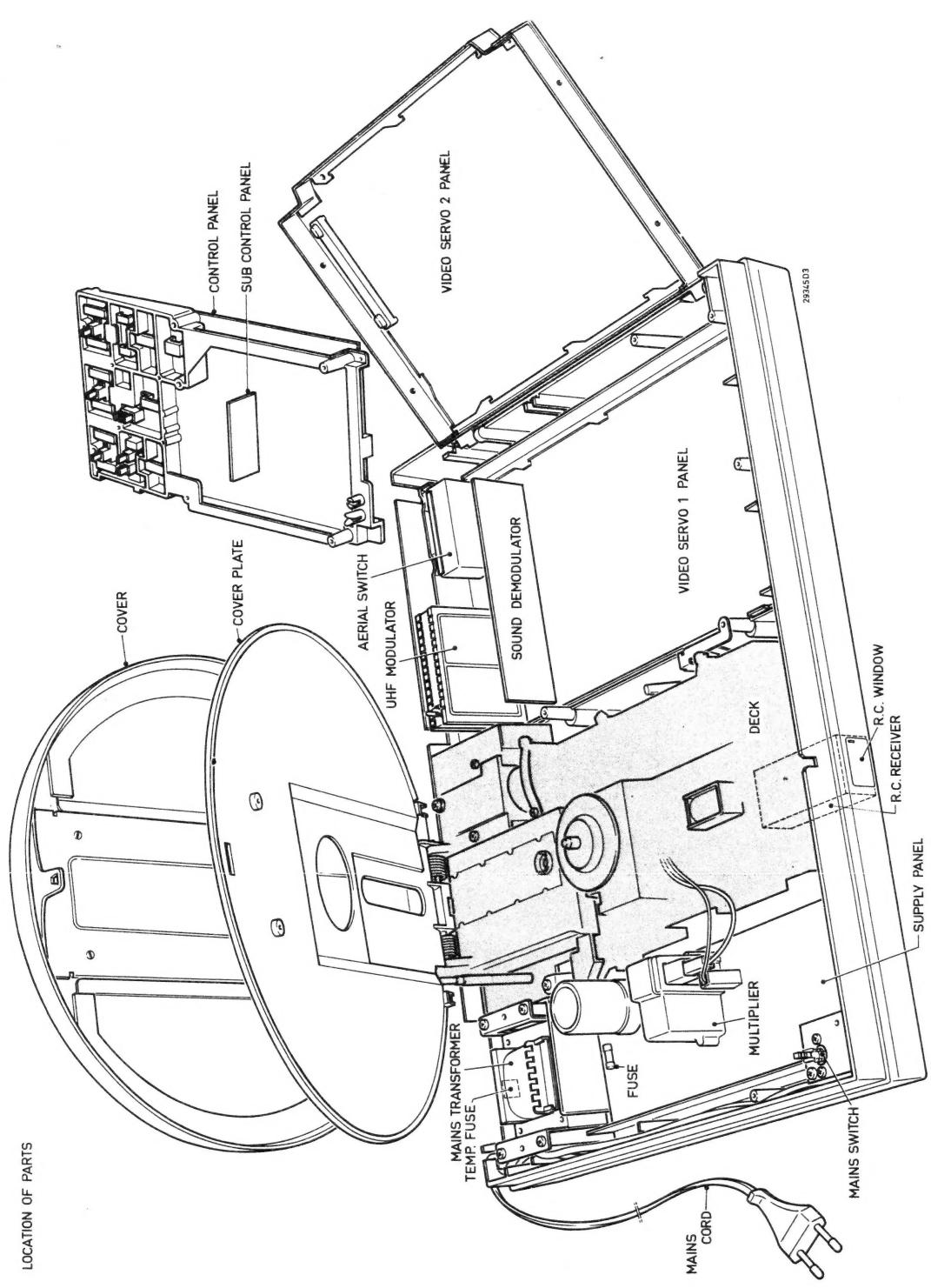
SEQUENCE OF DEMOUNTING 1.....8  
FOLLOWING SCREWS USED:  
1-SCREW (6mm) 482 502 30246  
2B - M3.5 (1/4" BLACK)  
3 - M3.0 (1/4" BLACK)  
4 - 4Kt 1/2" (32mm)  
5 6 6Kt 5/8" (128mm)  
7 8 - 6Kt 5/8" (16mm)

DEMOUNTING HOUSING

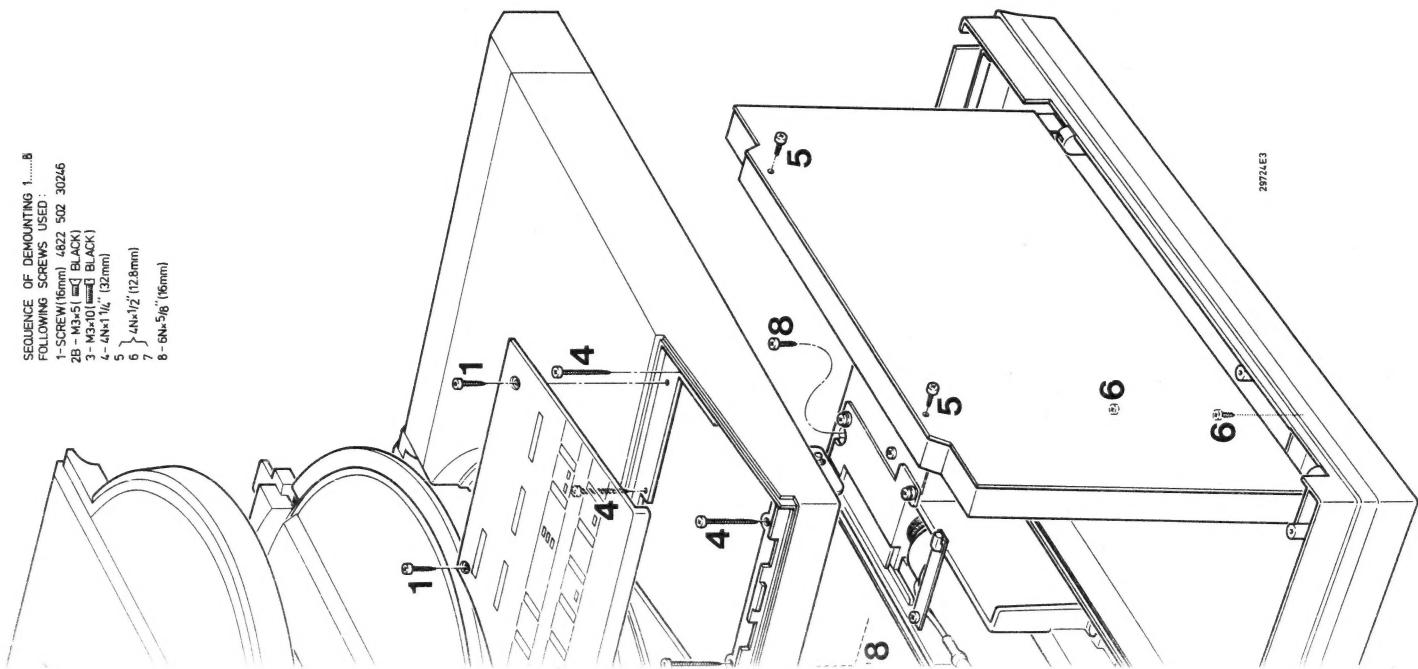


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LOCATION OF PARTS

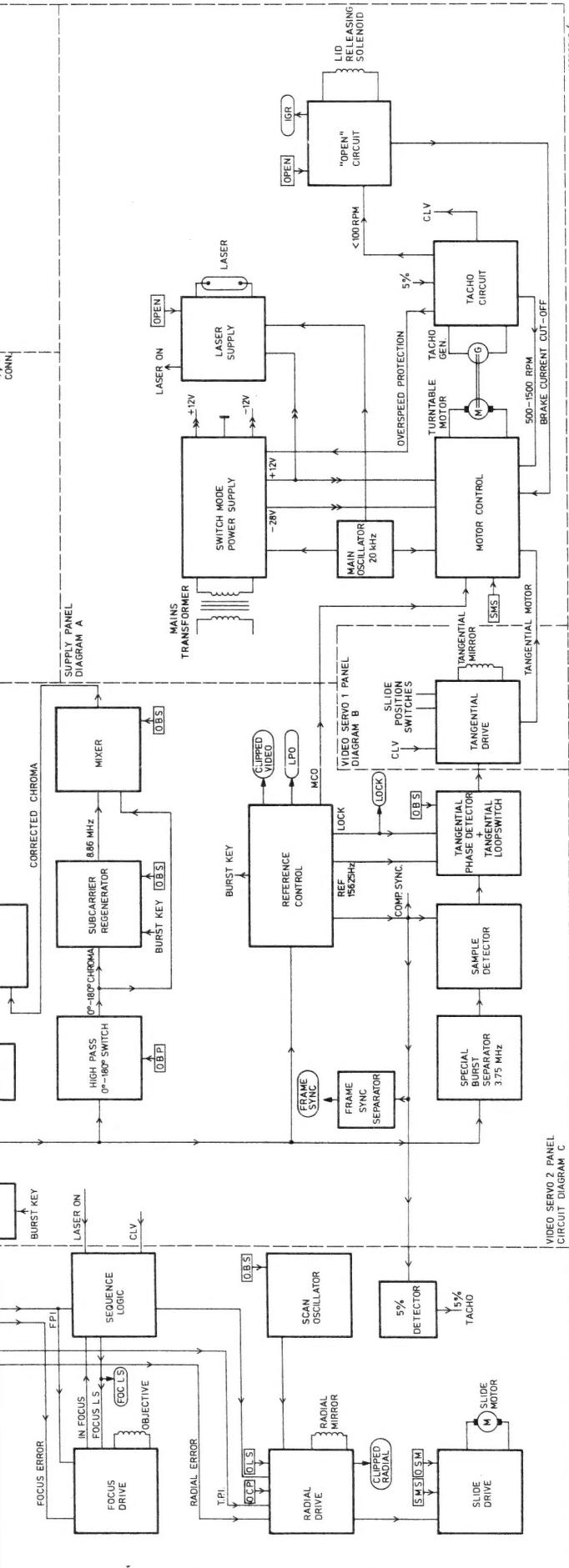
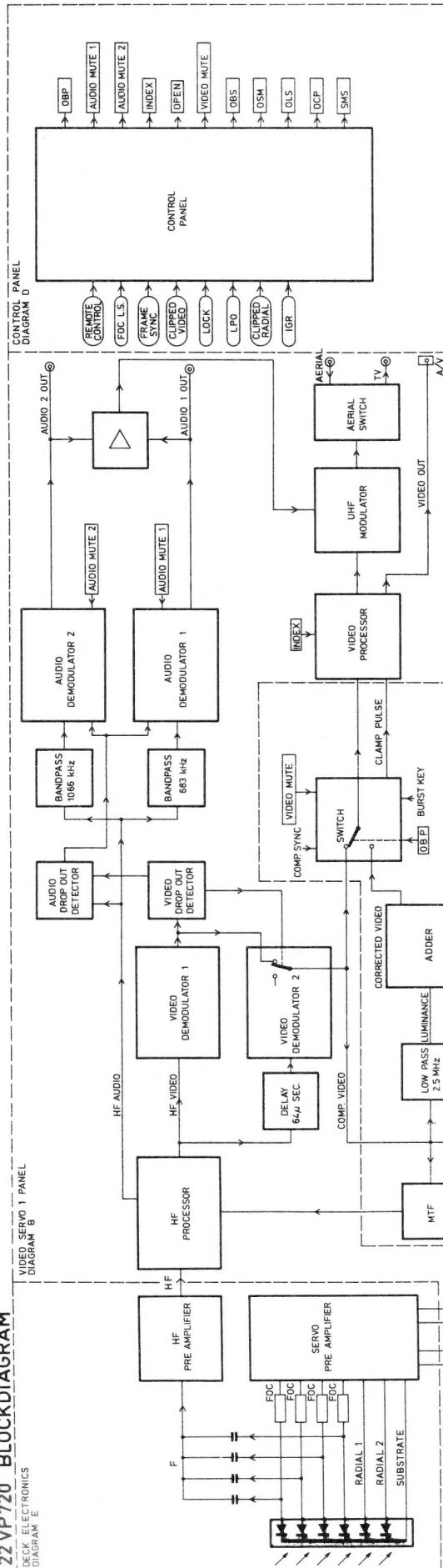


SEQUENCE OF DEMOUNTING 1.....8  
FOLLOWING SCREWS USED :  
1 - SCREW (8mm) 4-622 502 30246  
2B - M4x5 (16mm) BLACK  
3 - M3x10 (16mm) BLACK  
4 - M4x11 $\frac{1}{2}$  (32mm)  
5  
6  
7 - 4x1 $\frac{1}{2}$  (12.8mm)  
8 - 5x $\frac{5}{16}$  (16mm)



## 22VP720 BLOCKDIAGRAM

DECK ELECTRONICS  
DIAGRAM E

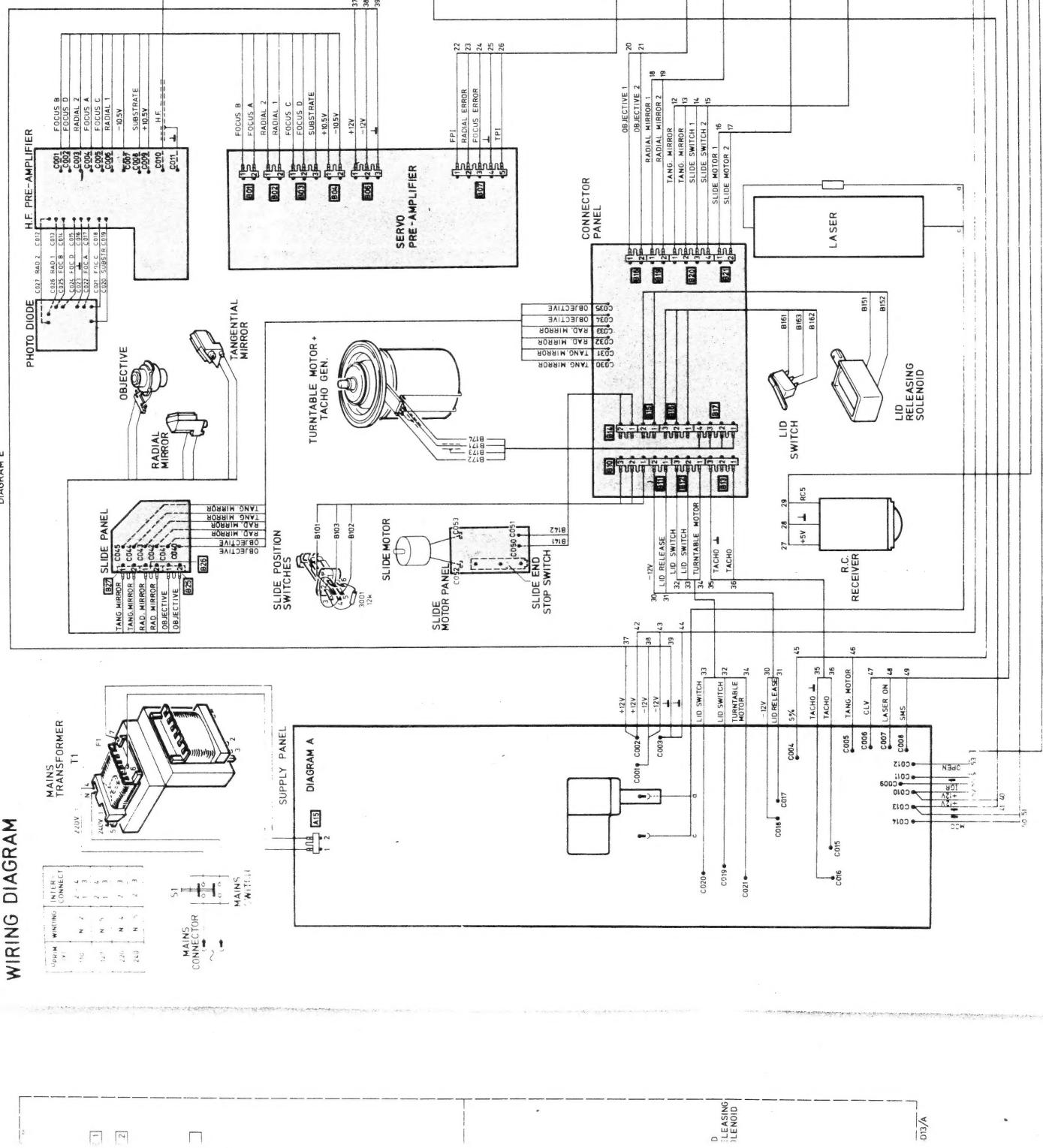


2905601/A

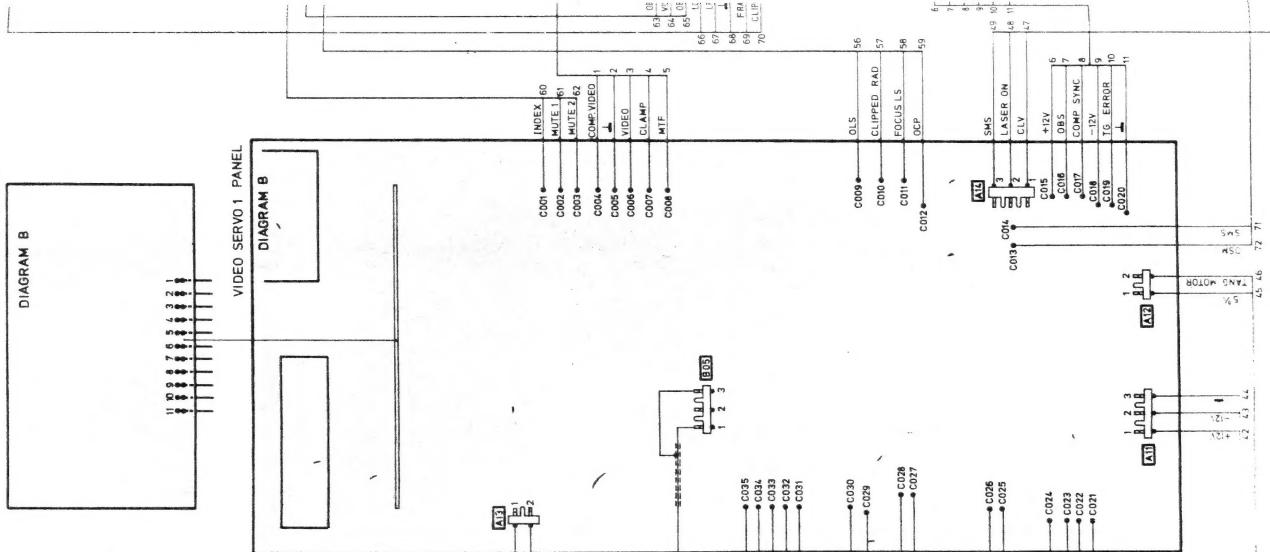
## WIRING DIAGRAM

DECK —  
DIAGRAM E

PHOTO DIODE 5027 RADI 2 5012 H.F. PRE-AMPLIFIER



## SOUND DEMODULATORS



## **ERKLÄRUNG HINSICHTLICH DER PRINZIPSCHALT-BILDER UND PRINTPLATTEN**

### **1. Schaltbilder**

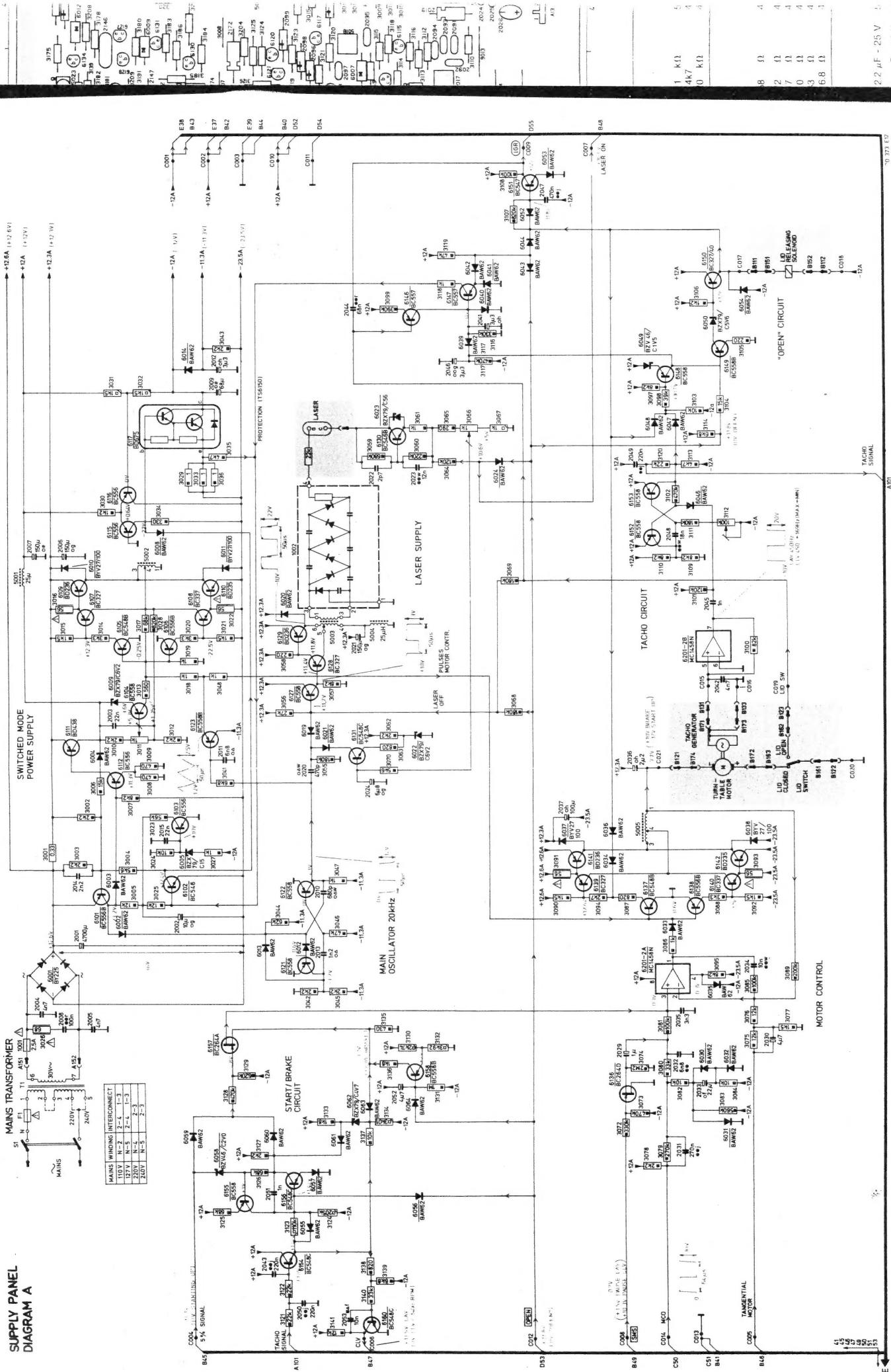
- a) Wenn nicht anders angegeben (in Klammern), sind die erwähnten Spannungen bei normaler Bildwiedergabe gemessen worden.
- b) Die Oszillogramme sind im Spielstand "Stehbild" gemessen worden mit einem Farbenmuster der Testplatte als Video-Signal.  
Die Oszillogramme des Audio-Signals sind bei 1000 Hz-Wiedergabe gemessen worden.
- c) Die Signale, die zur Bedien-Platte (Schaltbild D) gehen sind mit  angedeutet worden und die von der Bedien-Platte herkommen mit  .  
Siehe auch die entsprechenden Andeutungen im Blockschaltbild.

### **2. Printplatten**

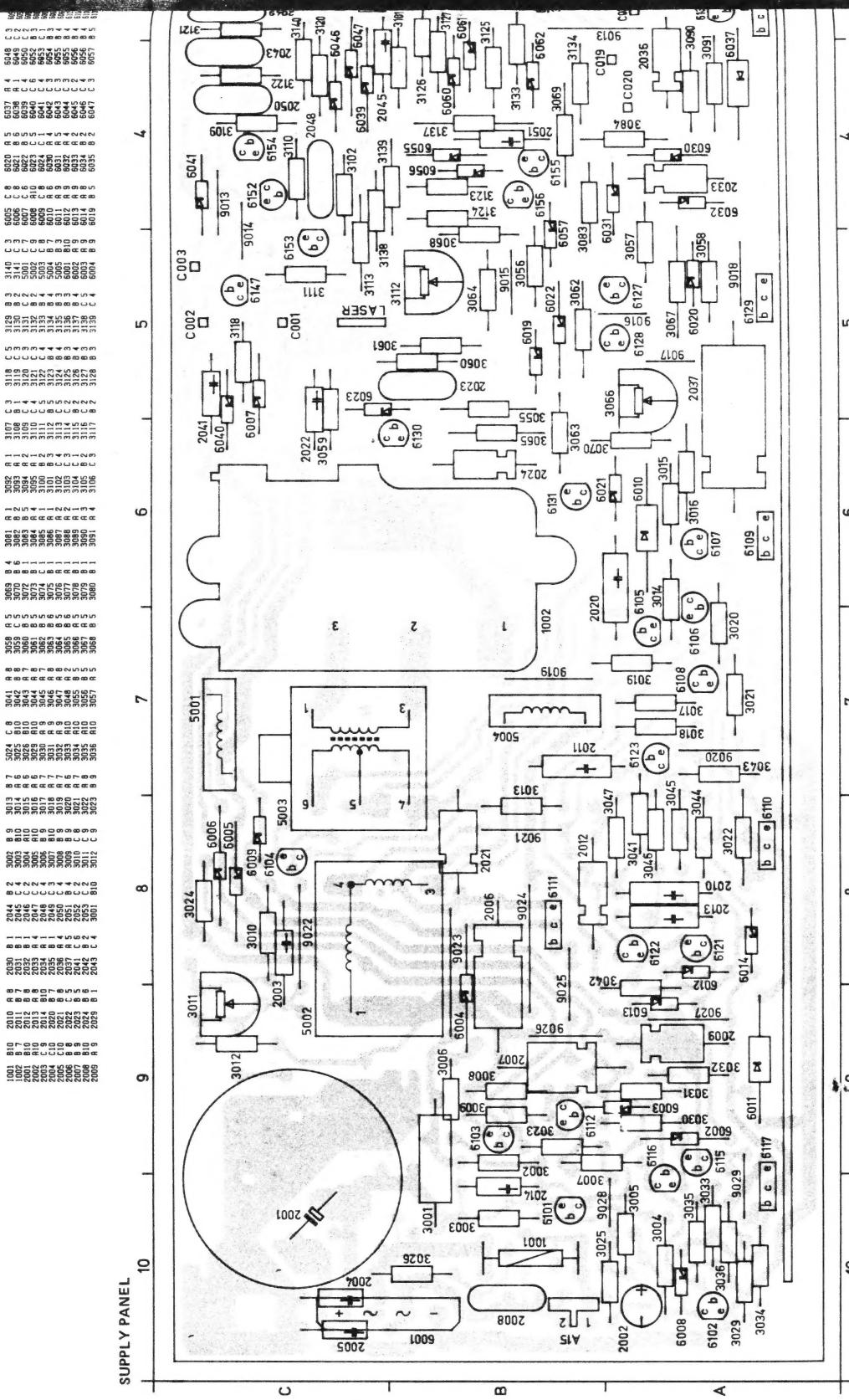
Ausser den Printzeichnungen enthält diese Service-Dokumentation ein Komponentensuchsystem das schnelles Aufspüren von Komponenten auf der Printplatte ermöglicht.

Um die Printplatte ist eine Quadranteinteilung gezeichnet worden.

Zum Beispiel: 2018 B5 heisst, dass der Kondensator 2018 sich im Quadrant B5 befindet.

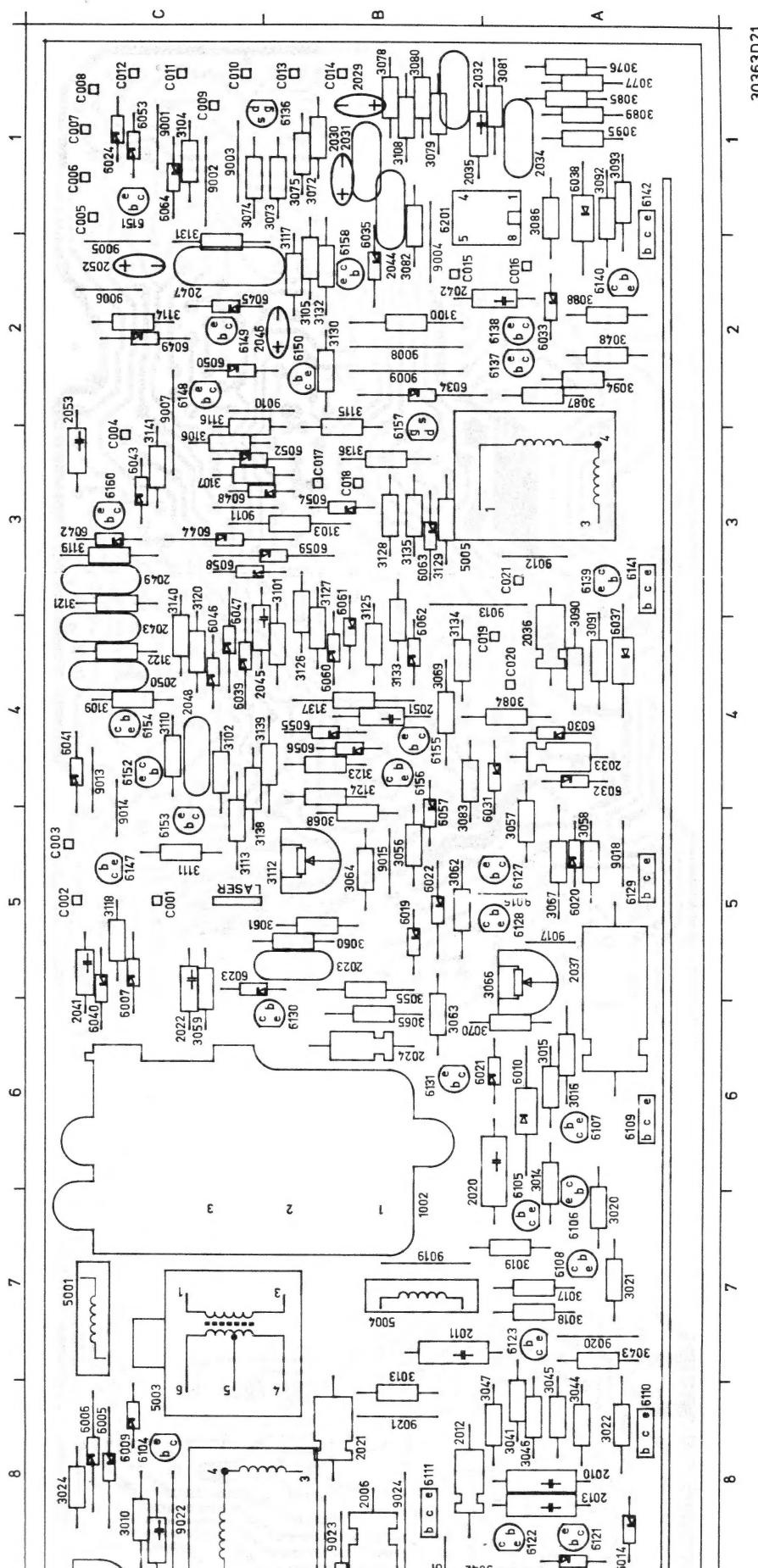


5  $\mu$ F - 16 V



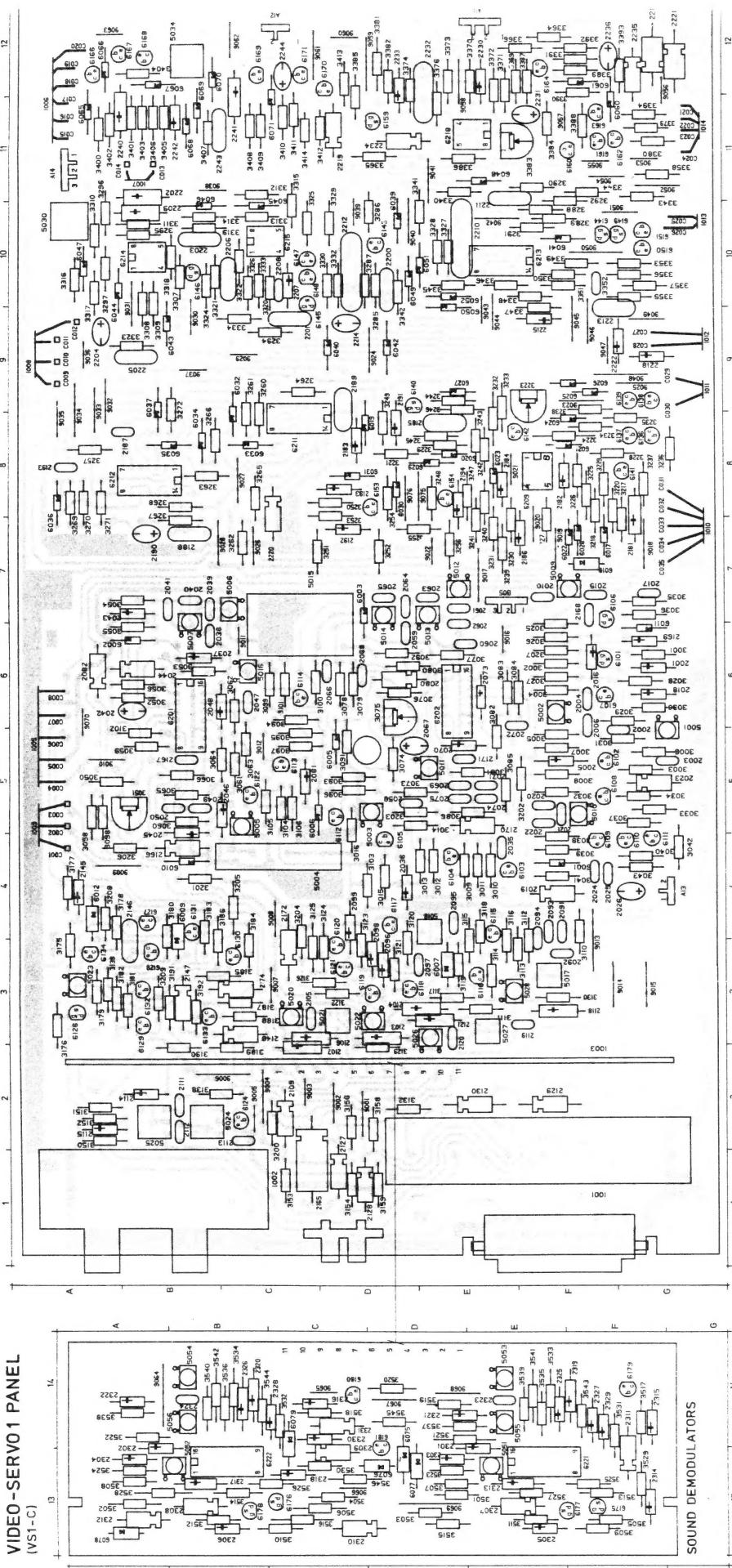
### SUPPLY PANEL

Multiplier	-II-	
	1 kΩ	4822 100 10037
1002	100 kΩ	4822 100 10052
—	—	—
5001,5004	25 $\mu$ H	4822 158 10573
5002,5005	—	4822 214 50231
5003	—	4822 146 20371
	—	4822 146 20694
	—	3016,3022
	—	3091,3093
	—	3026
	—	4822 111 30531



4822 214 50231	 $1 \text{ k}\Omega$ $100 \text{ k}\Omega$	4822 100 10037 4822 100 10052	2001 2029 2030,2052	4700 $\mu\text{F}$ - 63 V 1 $\mu\text{F}$ - 25 V 4.7 $\mu\text{F}$ - 25 V	5322 124 40449 4822 124 20944 5322 124 14064
4822 158 10573	 wire wound	0.33 $\Omega$ 0.33 $\Omega$	4822 113 31004 4822 113 60154	2003,2015,2041 2004,2005,2042	22 $\text{nF}$ - 30% 4.7 $\text{nF}$ - 30% 2.2 $\text{nF}$ - 10% 2.7 $\text{pF}$ - 10% 3.3 $\text{nF}$ - 10% 1 $\text{nF}$ - 10%
4822 158 20371 4822 146 20694		56 $\Omega$	4822 111 30528	2014 2022 2035 2045,2051	4822 122 10227 4822 122 10164 4822 122 10221 4822 122 10165 4822 122 10162
3026		68 $\Omega$	4822 111 30531		

## VIDEO - SERVO 1 PANEL (VS1-C)



## VIDEO SERVO 1 PANEL

5004 D1680 4822 218 20193 5322 100 10112 2036 2037 2046, 2081 2096 2099 2115, 2145 22 0F - 30%

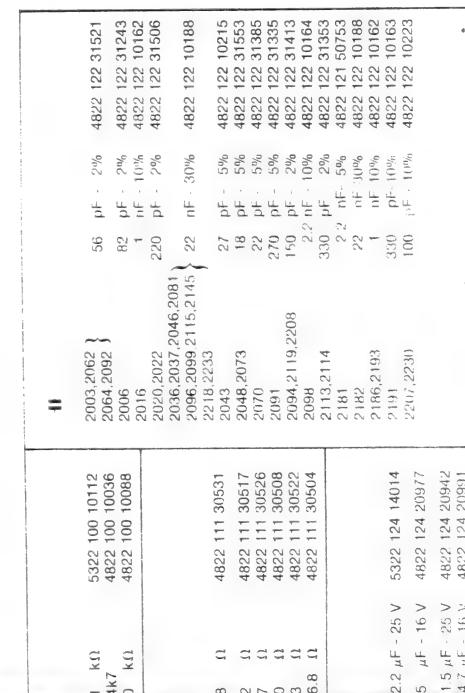
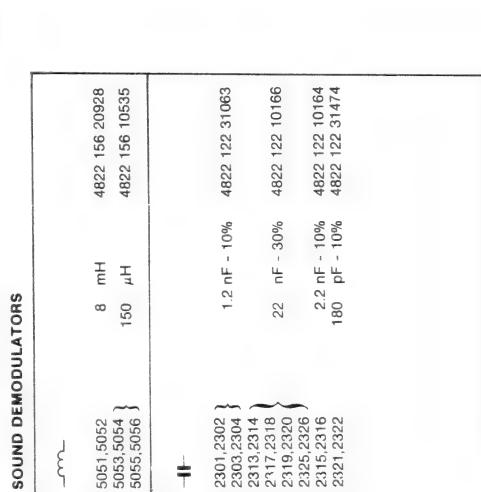
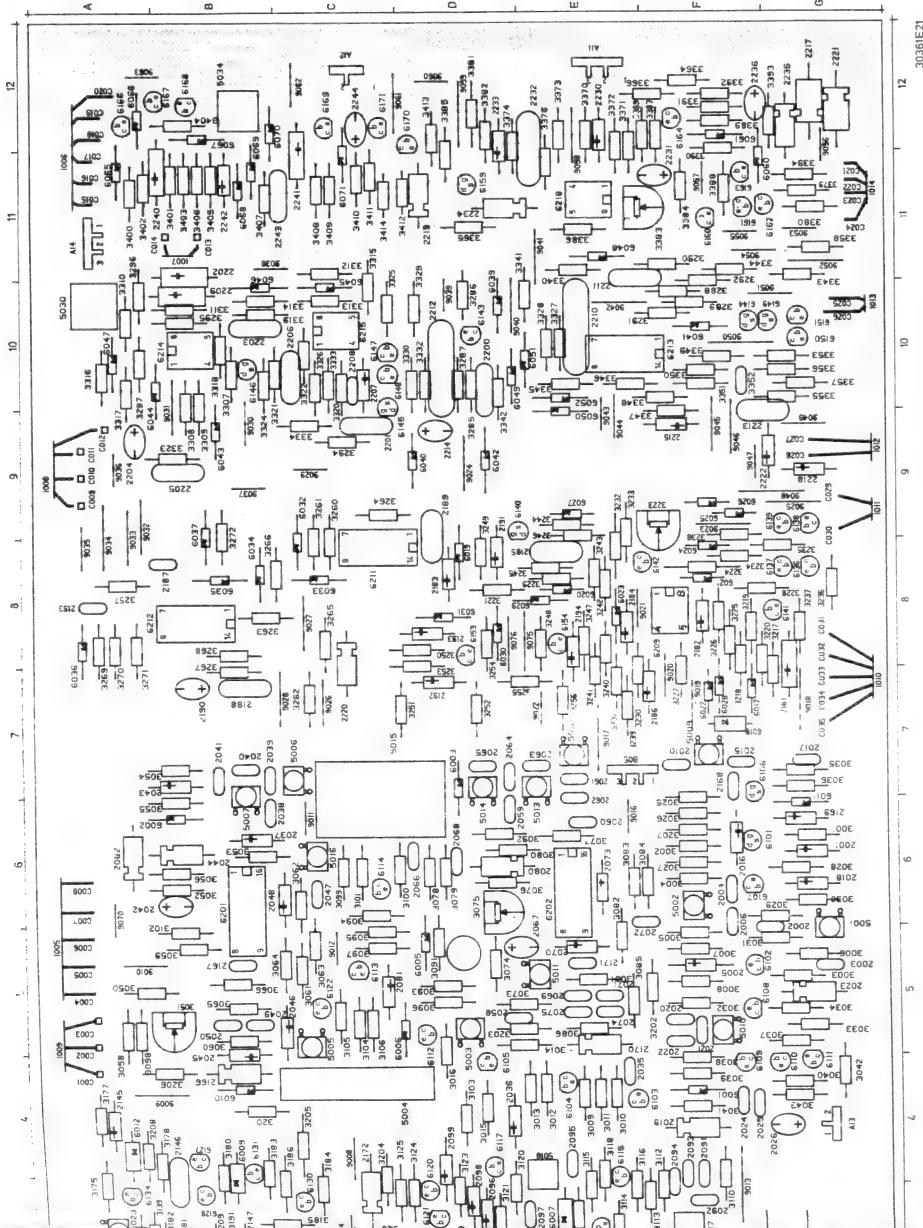
5015 470 nsec 4822 320 40081 4822 111 30531 4822 111 30517 4822 111 30526 4822 111 30608 4822 111 30522 2094 2119, 2208 2098 2111 30504 2113, 2114 2181 2182, 2193 2191 2207, 2230

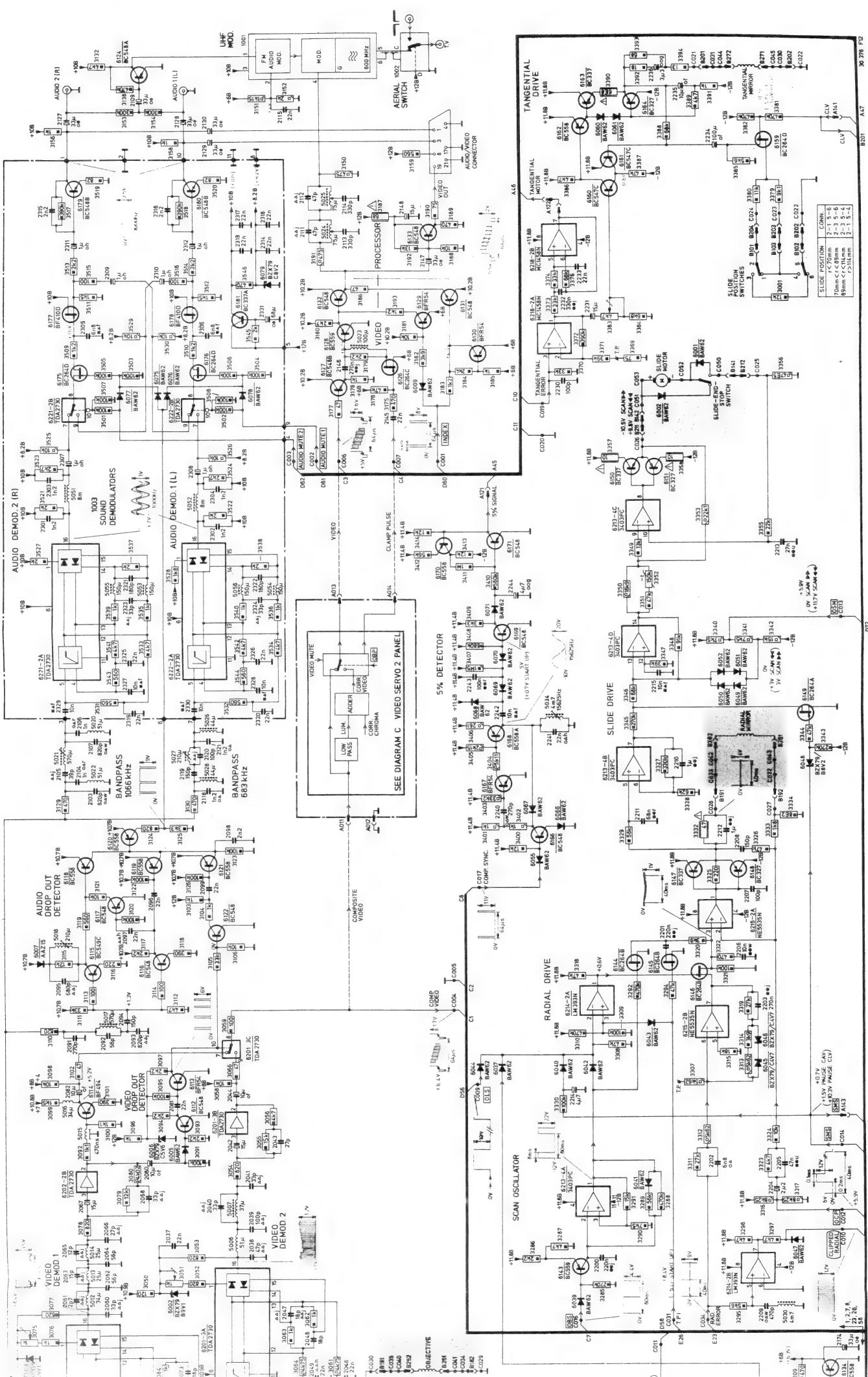
7.2  $\mu$ H 4822 156 21047 4822 156 21054 4822 156 21048 4822 157 51412 4822 156 21052 4822 156 21054 4822 157 51166 4822 156 21056 4822 156 21055 4822 156 21049 4822 157 51413 4822 156 21053 4822 156 20917 2042, 2067 2026, 2024 15  $\mu$ F - 16 V 2042, 2067 2148, 2231 15  $\mu$ F - 25 V 2026, 2024 15  $\mu$ F - 16 V 2148, 2231 1.5  $\mu$ F - 25 V 2190 4.7  $\mu$ H 4822 156 20917 2042, 2067 2148, 2231 1.5  $\mu$ F - 16 V 4822 124 20942 2190 4.7  $\mu$ H 4822 124 20942 2214

## SOUND DEMODULATORS

5051, 5052	56 pF - 2%	4822 122 31521	1.2 nF - 10%	4822 122 31063
5053, 5054	82 pF - 2%	4822 122 31243	1.2 nF - 10%	4822 122 10166
5055, 5056	100 pF - 2%	4822 122 10162	22 nF - 30%	4822 122 10166

5051, 5052	22 nF - 30%	4822 122 10166
5053, 5054	22 nF - 30%	4822 122 10166



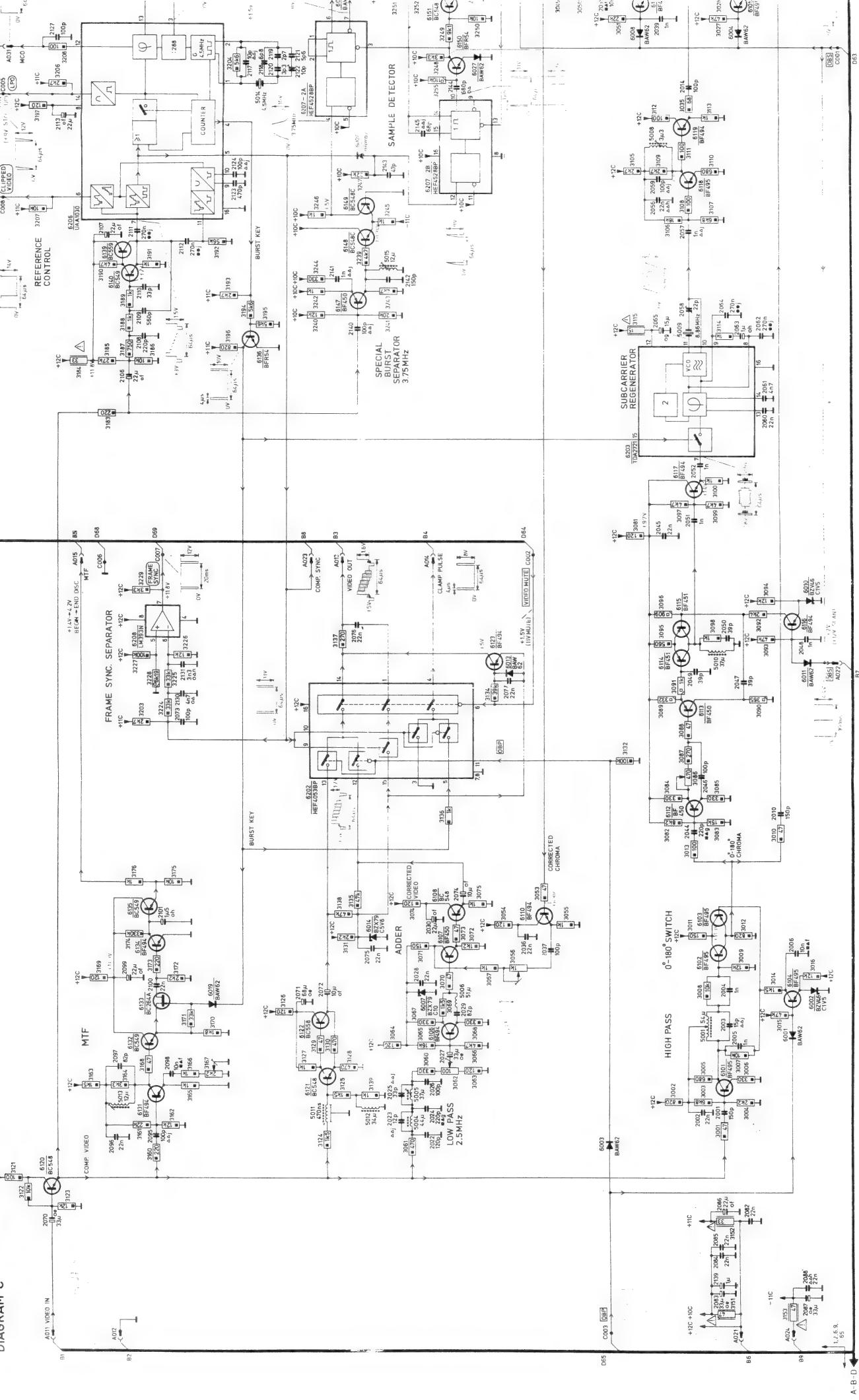


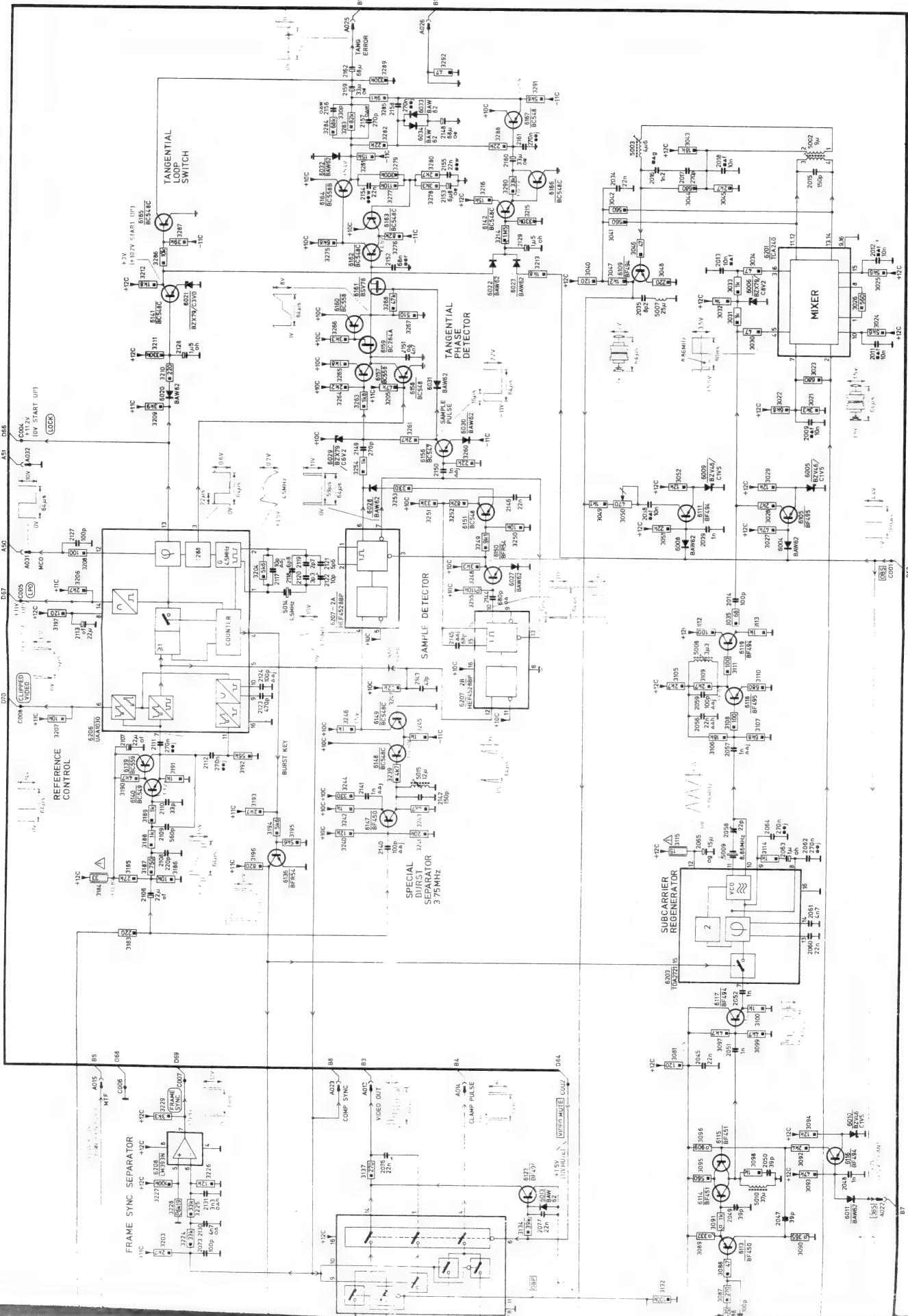
VIDEO SERVO 1 PANEL (VSI-C)

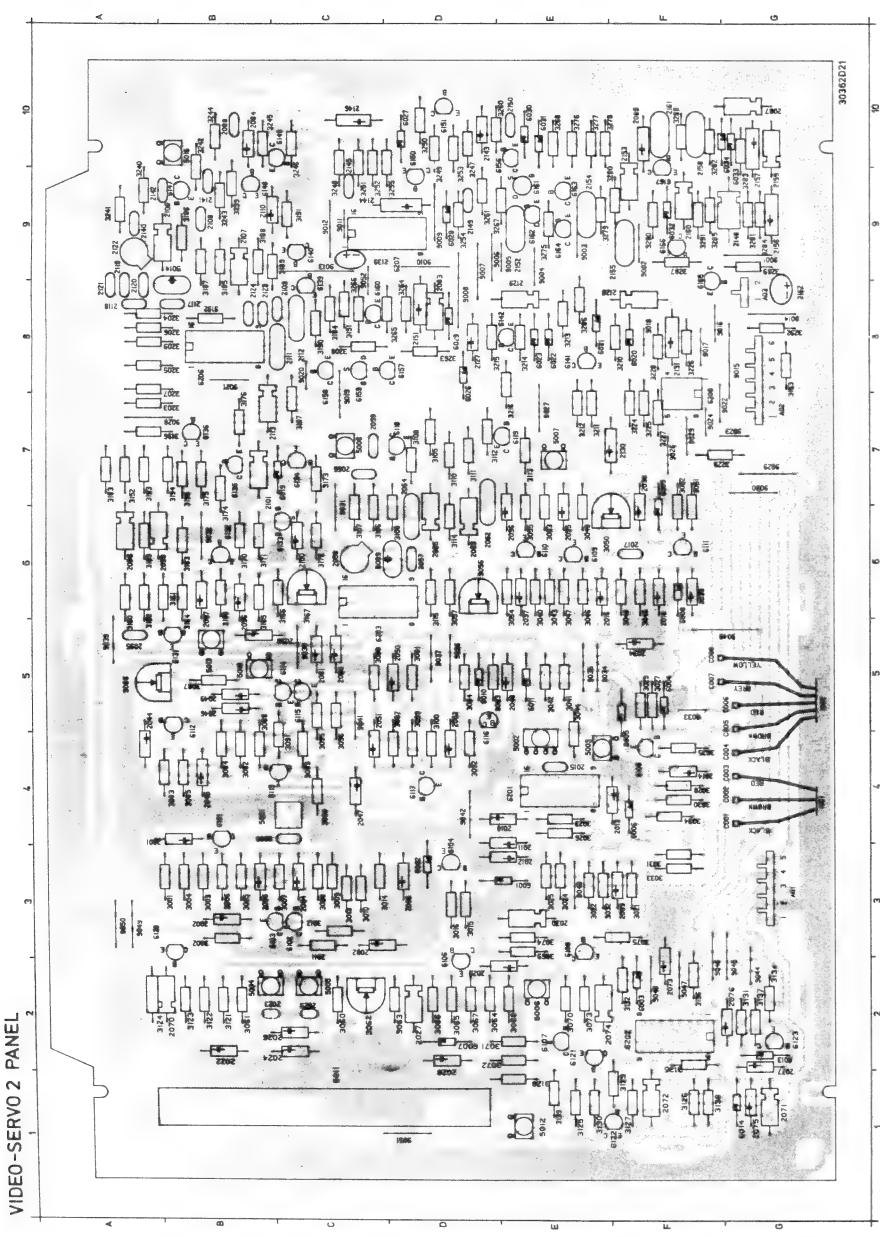
3

VIDEO SERVO 2 PANEL

D70

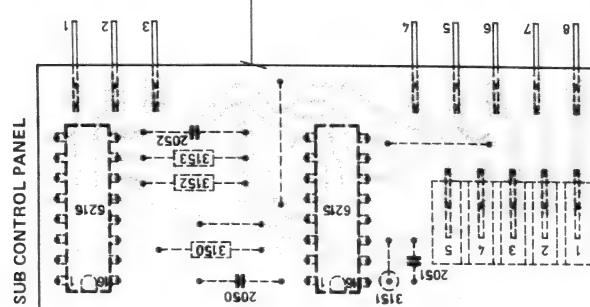
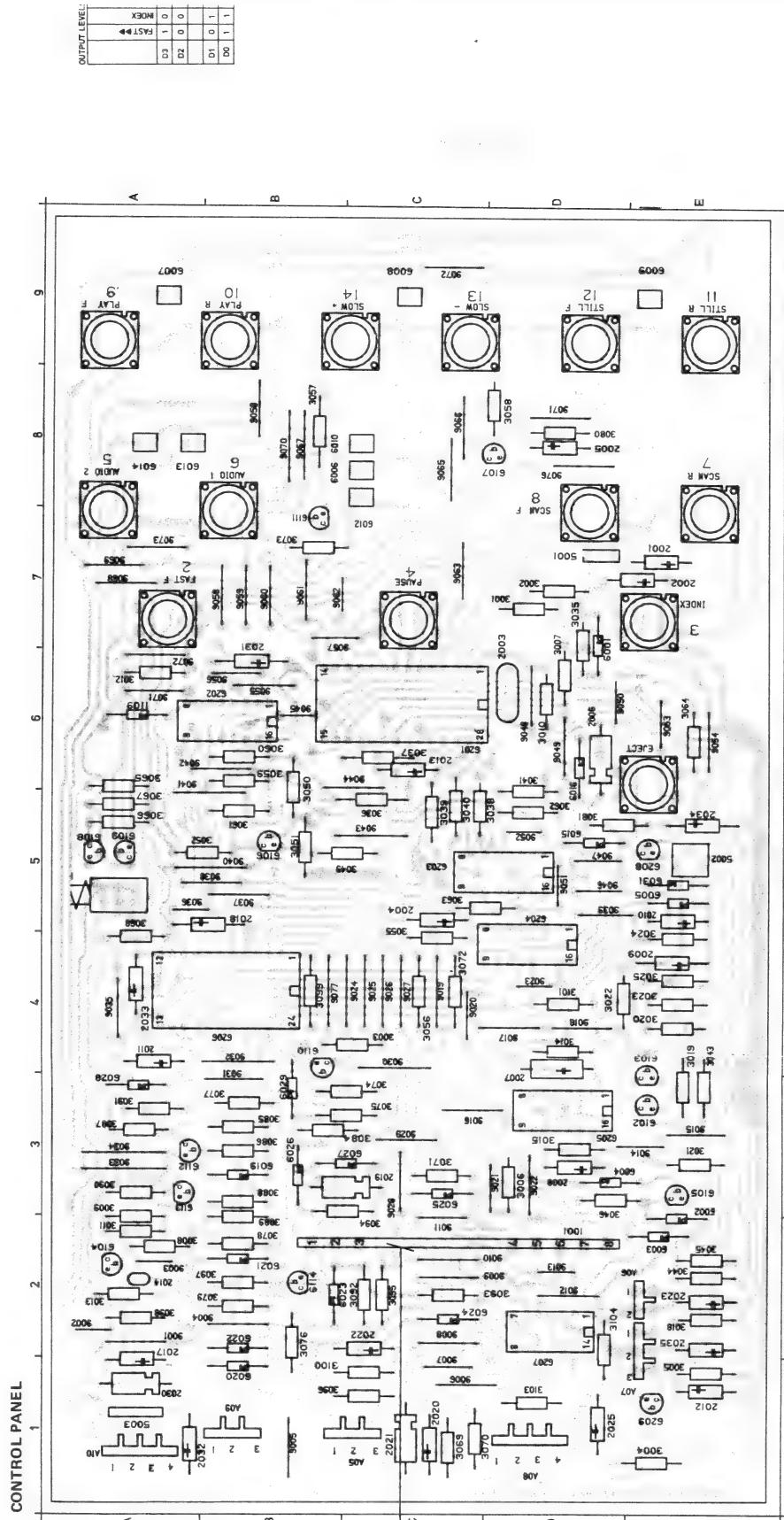






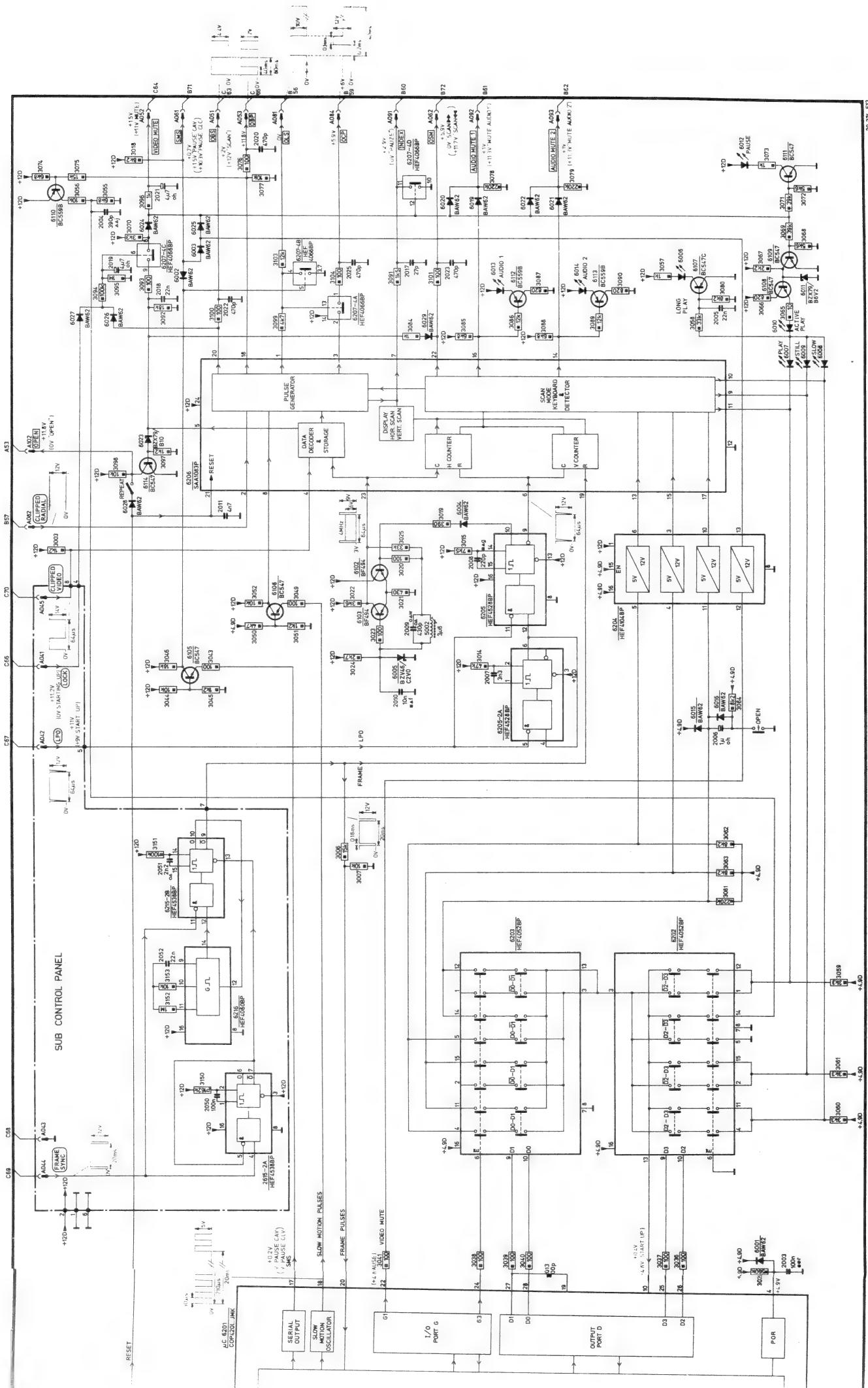
VIDEO SERVO 2 PANEL

5011	465 nsec	4822 157 50887	 	100 $\Omega$	4822 100 10075	1	nF - 10%	4822 122 10162
				470 $\Omega$	4822 100 10038	2001-2010	150 pF - 5%	4822 122 10224
5009	8.86 MHz	4822 242 70304		1 k	4822 100 10037	2002-2008/2034-2036	100 pF - 5%	4822 122 10223
				2 k2	4822 100 10029	2014-2026/2037	100 pF - 5%	4822 122 10223
5014	4.5 MHz	4822 242 70361		3115	15 $\Omega$	4822 111 30513	2014-2026/2037	100 pF - 5%
				3151/3153	47 $\Omega$	4822 111 30526	2015-2142	150 pF - 2%
5005	5010	5006		3152/3164	33 $\Omega$	4822 111 30522	2016	1.2 nF - 10%
							2017-2049/2050	39 pF - 5%
5001	54 $\mu$ H	4822 156 30843				2017/2149	200 pF - 2%	4822 122 31222
						2018	210 pF - 2%	4822 122 31222
5002	9 $\mu$ H	4822 156 40808				2022	560 pF - 5%	4822 122 31555
						2029	33 pF - 5%	4822 122 31025
5003	4.6 $\mu$ H	4822 156 21051				2035	82 pF - 5%	4822 122 31022
						2046-2073/2127	8.2 pF - 10%	4822 122 31413
5004	44 $\mu$ H	4822 156 21053				2016	1.2 nF - 10%	4822 122 31063
						2017/2049/2050	270 pF - 2%	4822 122 31335
5005	37 $\mu$ H	4822 156 21052				2061	4.7 nF - 30%	4822 122 31226
						2108	220 pF - 2%	4822 122 31222
5006	51 $\mu$ H	4822 157 51412				2110	560 pF - 5%	4822 122 31225
						2110	33 pF - 5%	4822 122 31245
5007	25 $\mu$ H	4822 157 51167				2118	6.8 pF - 5%	4822 122 31192
						2119	2.7 pF - 5%	4822 122 31187
5008	3.3 $\mu$ H	4822 156 10518				2120	3.3 pF - 5%	4822 122 31188
						2121	5.6 pF - 5%	4822 122 31191
5012	34 $\mu$ H	4822 157 51166				2123	470 pF - 5%	4822 122 31459
						2143	47 pF - 5%	4822 122 31473

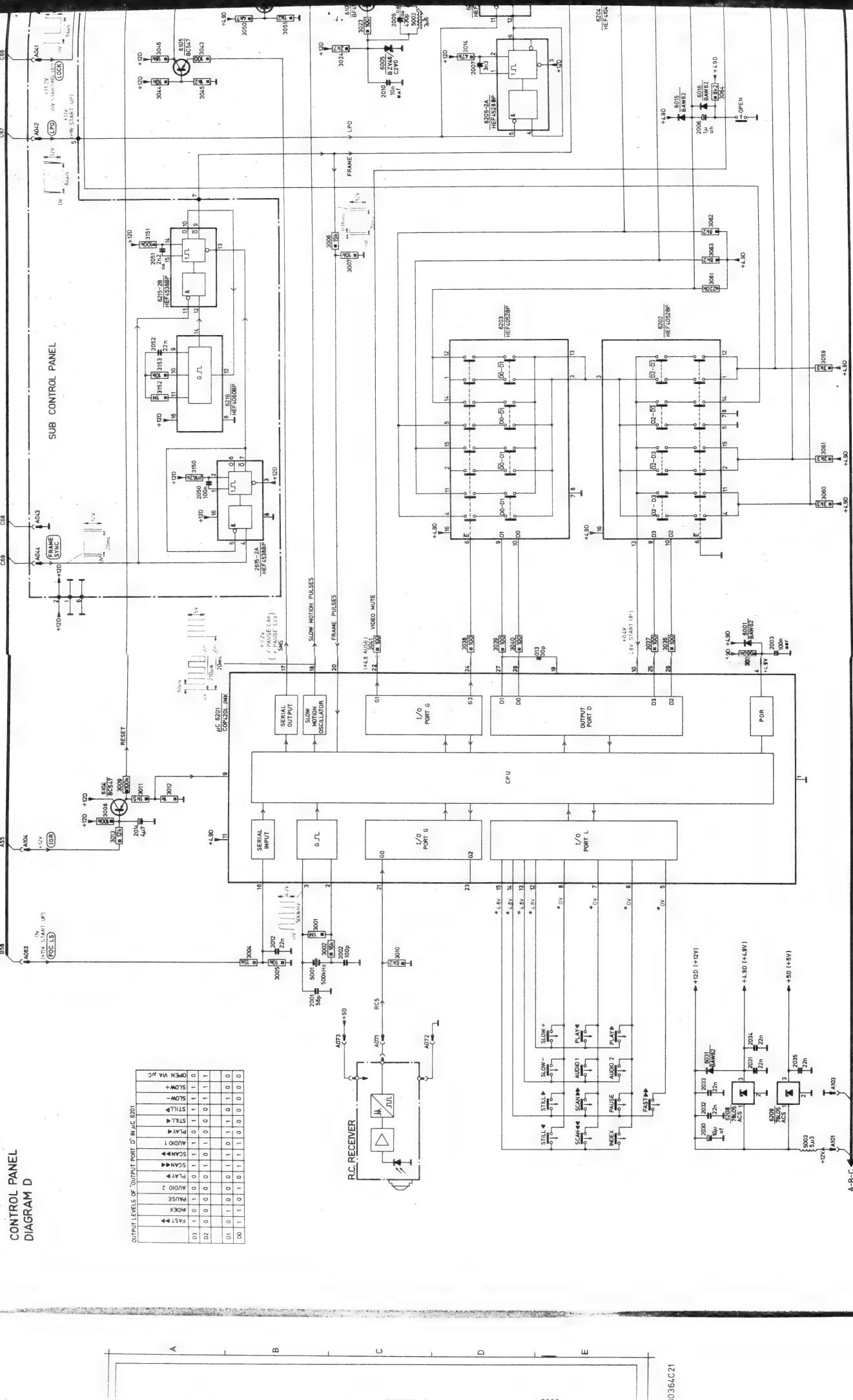


SUB CONTROL PANEL

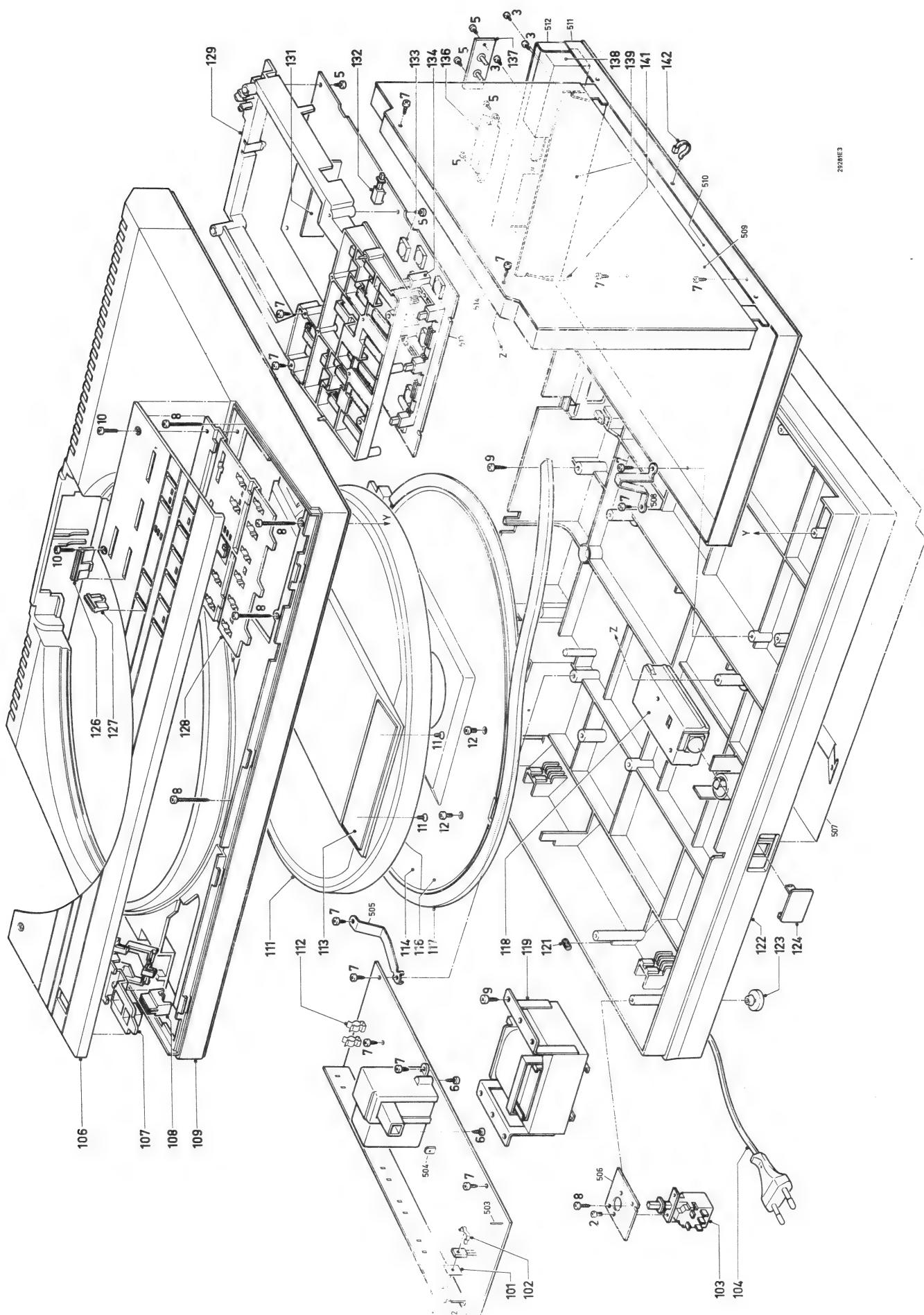
500 kHz		4822 242 70464	-II-	56 pF - 5%	4822 122 10247	100 nF - 5%	5322 121 40323
5001			2001	100 pF - 5%	4822 122 10246	2.2 nF - 2%	4822 121 50841
			2002	100 pF - 5%	4822 122 10246	22 nF - 30%	4822 122 10166
			2005/2012/2014				
			2018/2031/2032	22 nF - 30%	4822 122 10188		
			2033/2034/2035				
5002	3.3 $\mu$ H	4822 156 10518	2007	3.3 nF - 10%	4822 122 10165		
5003	5.3 $\mu$ H	4822 158 10101	2011	4.7 nF - 30%	4822 122 10226		
			2013	100 pF - 5%	4822 122 10223		
			2017	27 pF - 5%	4822 122 10215		
			2020/2022				
			2023/2025	470 pF - 10%	4822 122 31435		



**CONTROL PANEL  
DIAGRAM D**



LIST OF MECHANICAL PARTS



MISCELLANEOUS	
4822 502 11472	Crew M3x5
4822 502 11576	Crew M3x5
4822 502 11588	Crew M3x10
4822 502 30124	Crew M3x10
4822 502 30091	Crew 4Nx1/4"
6	Crew 4Nx3/8"
7	Crew 4Nx1/2"
8	Crew 4Nx1 1/4"
9	Crew 4Nx1 1/2"
10	Crew 4Nx 5/8"
11	Crew M3x6
12	Crew M3x10
101	4822 502 11513
102	4822 255 40133
103	4822 255 40128
104	4822 459 80171
105	4822 402 60829
106	4822 459 80171
107	4822 410 22741
108	4822 402 60829
109	4822 410 22741
110	4822 444 30322
111	4822 444 30324
112	4822 492 60063
113	4822 444 30364
114	4822 458 30299
115	4822 444 50292
116	4822 462 40414
117	4822 444 30233
118	4822 460 20364
119	4822 276 10973
120	4822 276 10974
121	4822 462 40444
122	4822 444 50292
123	4822 462 40414
124	4822 444 30247
125	4822 410 22738
126	4822 410 22739
127	4822 466 91107
128	4822 466 91108
129	4822 256 90388
130	4822 397 30055
131	4822 256 90388
132	4822 209 50042
133	LM393N
134	4822 209 80797
135	5322 209 85512
136	5322 209 14186
137	5322 209 14443
138	5322 209 14104
139	5322 209 14121
140	5322 209 10292
141	5322 209 14191
142	HEF4060 BP
143	HEF4053 BP
144	HEF4052 BP
145	5322 209 14233
146	4822 209 80791
147	4822 209 80629
148	NE5535N
149	NE555 (RC-R)
150	SAA1458N (deck)
151	SAA1458N (RC-T)
152	4822 209 80793
153	4822 209 80613
154	4822 209 80795
155	4822 209 80775
156	4822 209 81132
157	MC1458N
158	4822 397 30068
159	4822 395 50145
160	4822 736 50067
161	Set with torx-screw driving tools
162	Test disc 8"
163	Test disc 12"
164	4822 401 10632
165	4822 530 70316
166	* Aerail switch
167	* Audio/Video connector
168	* Bracket LED holder
169	* Mode switch
170	* Repetate switch
171	* Sub control panel
172	4822 466 91108
173	Bracket guiding
174	4822 410 22738
175	Button
176	4822 410 22739
177	Lens
178	4822 462 40414
179	Lower cabinet
180	Stopper
181	* Transformer
182	Mains switch
183	Repetate program switch
184	4822 276 10973
185	4822 276 10974
186	4822 267 10094
187	4822 267 20191
188	4822 410 22738
189	4822 410 22739
190	4822 466 91107
191	4822 466 91108
192	4822 466 91108
193	4822 466 91108
194	4822 466 91108
195	4822 466 91108
196	4822 466 91108
197	4822 466 91108
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-  -	miniature single elco 16 V		-   <sup>△△i</sup> ceramic plate 100 V
33	$\mu$ F - 16 V	4822 124 20688	2.7 pF 2%
68	$\mu$ F - 16 V	4822 124 20689	10 pF 2%
150	$\mu$ F - 16 V	4822 124 20691	12 pF 2%
330	$\mu$ F - 16 V	4822 124 20694	15 pF 2%
-   <sup>○i</sup> -	miniature single elco 25 V		-   <sup>△△i</sup> ceramic plate 100 V
10	$\mu$ F - 25 V	4822 124 20697	22 pF 2%
22	$\mu$ F - 25 V	4822 124 20698	18 pF 2%
100	$\mu$ F - 25 V	4822 124 20701	22 pF 2%
330	$\mu$ F - 25 V	4822 124 20705	26 pF 2%
-   <sup>○g</sup> -	miniature single elco 40 V		-   <sup>△△i</sup> ceramic plate 100 V
6.8	$\mu$ F - 40 V	4822 124 20707	33 pF 2%
10	$\mu$ F - 40 V	4822 124 20708	39 pF 2%
15	$\mu$ F - 40 V	4822 124 20709	47 pF 2%
33	$\mu$ F - 40 V	4822 124 20712	56 pF 2%
150	$\mu$ F - 40 V	4822 124 20716	68 pF 2%
-   <sup>○h</sup> -	miniature single elco 63 V		-   <sup>△△i</sup> ceramic plate 63 V
0.47	$\mu$ F - 63 V	4822 124 20719	4.7 nF - 20 + 80%
1	$\mu$ F - 63 V	4822 124 20722	10 nF - 20 + 80%
1.5	$\mu$ F - 63 V	4822 124 20723	22 nF - 20 + 80%
2.2	$\mu$ F - 63 V	4822 124 20724	-
3.3	$\mu$ F - 63 V	4822 124 20725	-
4.7	$\mu$ F - 63 V	4822 124 20726	-
100	$\mu$ F - 63 V	4822 124 20735	-
-   <sup>○o</sup> -	subminiature tantalum cap. 16 V		-   <sup>△△i</sup> tubular ceramic
10	$\mu$ F - 16 V	5322 124 14066	-   <sup>△△i</sup> tubular ceramic
-   <sup>○o</sup> -	subminiature tantalum cap. 40 V		-   <sup>△△i</sup> tubular ceramic
3.3	$\mu$ F - 25 V	5322 124 14067	-   <sup>△△i</sup> tubular ceramic
-   <sup>○M</sup> -	micropoco 63 V		-   <sup>△△i</sup> polyester flat foil 100 V
4.7	nF 5% 63 V	4822 121 50539	120 nF 10% 100 V
6.8	nF 5% 63 V	4822 121 50538	150 nF 10% 100 V
12	nF 5% 63 V	5322 121 54162	180 nF 10% 100 V
22	nF 2% 63 V	4822 121 50609	220 nF 10% 100 V
-   <sup>○M</sup> -	micropoco 160 V		-   <sup>△△i</sup> polyester flat foil 100 V
3.3	nF 5% 160 V	5322 121 54049	330 nF 10% 100 V
-   <sup>○M</sup> -	micropoco 250 V		-   <sup>△△i</sup> polyester flat foil 250 V
1	nF 5% 250 V	4822 121 50566	470 nF 10% 250 V
1.2	nF 2% 250 V	5322 121 54135	680 nF 10% 250 V
-   <sup>○M</sup> -	micropoco 630 V		-   <sup>△△i</sup> polyester flat foil 400 V
270	pF 2% 630 V	5322 121 54047	820 nF 10% 250 V
330	pF 2% 630 V	5322 121 54077	100 nF 10% 250 V
390	pF 5% 630 V	5322 121 54128	-
430	pF 2% 630 V	5322 121 54129	-
470	pF 2% 630 V	5322 121 54078	-
680	pF 2% 630 V	5322 121 54061	-
820	pF 5% 630 V	5322 121 54072	-

	AA119	4822 130 31012
	AAZ15	4822 130 30229
BC264A	5322 130 44476	4822 130 31066
BC264B	4822 130 44066	5322 130 44476
BC264C	5322 130 44676	BA317 (RC)
BC264D	5322 130 44676	BAW62
BC327	4822 130 40854	
BC327/40	4822 130 41227	BY225/100
BC328 (RC-T)	4822 130 44104	BY225/100
BC337	4822 130 40855	BYV27/100
BC368	5322 130 44647	
BC369	5322 130 44593	BZV46/C1V5
BC346	4822 130 41001	BZV46/C2V0
BC546B	4822 130 44461	BZX79/B5V6
BC547	4822 130 42577	BZX79/B8V2
BC547C	4822 130 44503	BZX79/B9V1
BC548	4822 130 40938	BZX79/B10
BC548A	4822 130 40948	
BC548B	4822 130 40937	BZV46/C3V0
BC548C	4822 130 44196	BZX79/C3V6
BC549	4822 130 40964	BZX79/C4V7
BC549B	4822 130 40936	BZX79/C5V1
BC549C	4822 130 44246	BZX79/C6V6
BC556	4822 130 40989	BZX79/C6V7
BC556B	4822 130 41891	BZX79/C6V8
BC557	4822 130 44256	BZX79/C7V5
BC558	4822 130 40941	BZX79/C8V2
BC558A	4822 130 40962	BZX79/C9V1
BC558B	4822 130 44197	BZX79/C10
BC559	4822 130 40963	BZX79/C15
BC559B	4822 130 44558	BZX79/C18
BD235	4822 130 44235	BZX79/C56
BD236	4822 130 41026	
BD438	5322 130 40955	
BD675	5322 130 44786	
BF240	4822 130 40902	17.8 Ω
BF256B	5322 130 44744	47.5 Ω
BF256C	5322 130 44553	221 Ω
BF410D	4822 130 41687	237 Ω
BF450	4822 130 44237	261 Ω
BF451	4822 130 4395	332 Ω
BF494	4822 130 44195	365 Ω
BF495	4822 130 40947	475 Ω
BFR54	4822 130 41801	909 Ω
BSV78	5322 130 44093	1 kΩ
SLP155B - 40	4822 130 31672	1.15 kΩ
Photo diode (deek)	4822 130 31572	1.5 kΩ
CFY89A (RC-T)	4822 130 31428	2 kΩ
SFH206 (RC-R)	4822 130 31332	2.15 kΩ
		2.74 kΩ
		3.01 kΩ
		3.65 kΩ
		3.92 kΩ
		4.02 kΩ
		4.75 kΩ
		5.11 kΩ
		5.62 kΩ
		6.19 kΩ
		7.5 kΩ
		8.25 kΩ
		10 kΩ
		15 kΩ
		16.9 kΩ
		22.1 kΩ
		33.2 kΩ
		53.6 kΩ
		110 kΩ
		162 kΩ
		205 kΩ

## ABBREVIATIONS IN THE DIAGRAMS

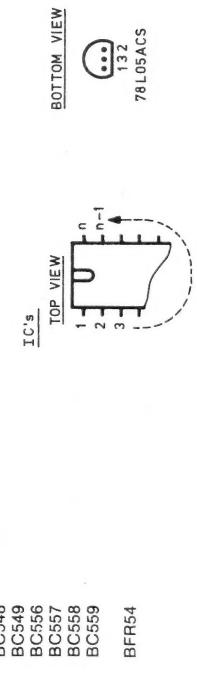
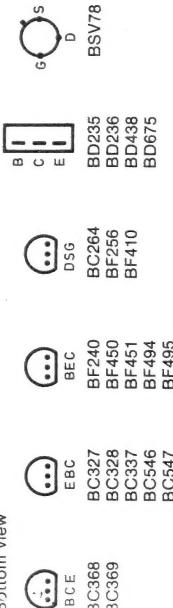
CAV	Constant angular velocity
CLV	Constant linear velocity
COMP SYNC.	Composite synchronisation signal
CPU	Central processing unit
FOC LS	Focus loop switch
FPI	Focus position indicator
HF	High frequent
IGR	Input general reset
LOCK	Motor lock signal
LPO	Line pulse out
LV	Laser vision
MCO	Motor control out
MTF	Motional transfer function
OBP	Output burst PAL
OBS	Output burst switch (PAL/NTSC)
OCP	Output course pulse
OLS	Output radial loop switch
OSM	Output slide motor
PAL	Phase alternating line
POL	Polarity
POR	Power on reset
RAD	Radial
RC	Remote control
SCART	Syndicat des constructeurs d'appareils radio récepteurs et téléviseurs (audio-video connector)
SMS	Slide motor switch
SW	Switch
TANG	Tangential
TP	Test point
TPI	Track position indicator (radial)

## SURVEY OF SYMBOLS:



## CONNECTIONS OF SEMICONDUCTORS

### Transistors



RC5-VP720

## REMOTE CONTROL TRANSMITTER INFRA RED

